

Docket No.: M4065.0509/P509 B  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Hasan Nejad et al.

Application No.: 10/784,786

Art Unit: 2818

Filed: February 24, 2004

Examiner: Not Yet Assigned

For: STACKED COLUMNAR IT-NMJT MRAM  
STRUCTURE AND ITS METHOD OF  
FORMATION AND OPERATION

**SECOND PRELIMINARY AMENDMENT**

MS Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**INTRODUCTORY COMMENTS**

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

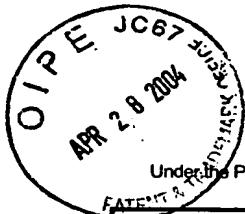
**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 5 of this paper.

04/29/2004 ZJUHA1 00000090 10784786

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86.00 OP



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PTO/SB/17 (10-03)  
Approved for use through 7/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>FEE TRANSMITTAL</b>				<b>Complete if Known</b>																																																																																																																																																																																															
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<small>Effective 10/01/2003, Patent fees are subject to annual revision.</small>				Filing Date	February 24, 2004																																																																																																																																																																																														
<div><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</div>				First Named Inventor	Hasan Nejad																																																																																																																																																																																														
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<b>TOTAL AMOUNT OF PAYMENT</b>		<b>(\$)</b>	<b>86.00</b>	Attorney Docket No.	M4065.0509/P509 B																																																																																																																																																																																														
<b>METHOD OF PAYMENT (check all that apply)</b>				<b>FEE CALCULATION (continued)</b>																																																																																																																																																																																															
<div><input type="checkbox"/> Check   <input type="checkbox"/> Credit Card   <input type="checkbox"/> Money Order   <input type="checkbox"/> Other   <input type="checkbox"/> None</div> <div><input type="checkbox"/> Deposit Account: Deposit Account Number: <span style="border: 1px solid black; padding: 2px;">04-1073</span> Deposit Account Name: <span style="border: 1px solid black; padding: 2px;">Dickstein Shapiro Morin &amp; Oshinsky LLP</span></div> <div>The Director is authorized to: (check all that apply) <input type="checkbox"/> Charge fee(s) indicated below   <input checked="" type="checkbox"/> Credit any overpayments <input type="checkbox"/> Charge any additional fee(s) or any underpayment of fee(s) <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.</div>				<b>3. ADDITIONAL FEES</b>																																																																																																																																																																																															
<b>1. BASIC FILING FEE</b>				<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th colspan="2">Large Entity</th><th colspan="2">Small Entity</th><th rowspan="2">Fee Description</th><th rowspan="2">Fee Paid</th></tr><tr><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th></tr></thead><tbody><tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr><tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr><tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr><tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr><tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr><tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr><tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr><tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr><tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr><tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr><tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr><tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr><tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr><tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr><tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr><tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr><tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr><tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr><tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr><tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37CFR 1.129(b))</td><td></td></tr><tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td></td></tr><tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr><tr><td colspan="6">Other fee (specify) _____</td></tr><tr><td colspan="4"><b>SUBTOTAL (1) (\$)</b></td><td><b>SUBTOTAL (3) (\$)</b></td><td><b>0.00</b></td></tr></tbody></table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge - 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<b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b>	
Total Claims	15
Independent Claims	4
Multiple Dependent	
<b>Fee Description</b>	
1202	18
1201	86
1203	290
1204	86
1205	18
<b>SUBTOTAL (2) (\$)</b>	
<b>86.00</b>	
<small>**or number previously paid, if greater; For Reissues, see above</small>	
<b>SUBMITTED BY</b>	
Name (Print/Type)	Thomas J. D'Amico
Registration No. (Attorney/Agent)	28,371
Telephone	(202) 828-2232
Signature	
Date	April 28, 2004